

GTGGGGTCGCCTCCGACCTCGGCCTGGCGGGCGCCGGGCCGGGAAGGGCGGGCGGGGACCCATGCGCGG SEQ ID NO:1  
 M A S A G G E D C E S P A P E A 16 SEQ ID NO:2  
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 ↑SEQ ID NO:3→  
 D R P H Q R P F L I G V S G G T A S G K 36  
 GAC CGT CCG CAC CAG CGG CCC TTC CTG ATA GGG GTG AGC GGC GGC ACT GCC AGC GGG AAG 108  
 S T V C E K I M E L L G Q N E V E Q R Q 56  
 TCG ACC GTG TGT GAG AAG ATC ATG GAG TTG CTG GGA CAG AAC GAG GTG GAA CAG CGG CAG 168  
 R K V V I L S Q D R F Y K V L T A E Q K 76  
 CGG AAG GTG GTC ATC CTG AGC CAG GAC AGG TTC TAC AAG GTC CTG AGC GCA GAG CAG AAG 228  
 A K A L K G Q Y N F D H P D A F D N D L 96  
 GCC AAG GCC TTG AAA GGA CAG TAC AAT TTT GAC CAT CCA GAT GCC TTT GAT AAT GAT TTG 288  
 M H R T L K N I V E G K T V E V P T Y D 116  
 ATG CAC AGG ACT CTG AAG AAC ATC GTG GAG GGC AAA ACG GTG GAG GTG CCG ACC TAT GAT 348  
 F V T H S R L P E T T V V Y P A D V V L 136  
 TTT GTG ACA CAC TCA AGG TTA CCA GAG ACC ACG GTG GTC TAC CCT GCG GAC GTG GTT CTG 408  
 F E G I L V F Y S Q E I R D M F H L R L 156  
 TTT GAG GGC ATC TTG GTG TTC TAC AGC CAG GAG ATC CGG GAC ATG TTC CAC CTG CGC CTC 468  
 F V D T D S D V R L S R R V L R D V R R 176  
 TTC GTG GAC ACC GAC TCC GAC GTC AGG CTG TCT CGA AGA GTT CTC CGG GAC GTG CGC CGA 528  
 G R D L E Q I L T Q Y T T F V K P A F E 196  
 GGG AGG GAC CTG GAG CAG ATT CTG ACG CAG TAC ACC ACC TTC GTG AAG CCG GCC TTC GAG 588  
 E F C L P T K K Y A D V I I P R G V D N 216  
 GAG TTC TGC CTG CCG ACA AAG AAG TAT GCC GAT GTG ATC ATC CCA CGA GGA GTG GAC AAT 648  
 M V A I N L I V Q H I Q D I L N G D I C 236  
 ATG GTT GCC ATC AAC CTG ATC GTG CAG CAC ATC CAG GAC ATT CTG AAT GGT GAC ATC TGC 708  
 K W H R G G S N G R S Y K R T F S E P G 256  
 AAA TGG CAC CGA GGA GGG TCC AAT GGG CGG AGC TAC AAG CGG ACC TTT TCT GAG CCA GGG 768  
 D H P G M L T S G K R S H L E S S S R P 276  
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 CAC TGA 834  
 ←SEQ ID NO:3→  
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 CACTCAGACTCAACTTGCTGGACACTGACAGGCCTCCTGAGGTTTCAGCCACTTAGGCTCGTGGTTAAAGAT  
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FIGURE 1a

GGGGAAATTGAGGAGACAGCCTAGACACTGGCTGGCCTGATGTTTGTGACAGTGAACCCACAGTGGGAGAGAGTTT  
TTCCAGTCTGATCTGGTTCTTACACACTCACACACATAACTCAAAAGTTGTGAACAAGTACTTCCTTTTACATG  
TTACATGTCTCATGTTTCTGTTCTGTTCATAACACAGGCTGGTTGTGGCCTACAAACCTAA.TTCATGACCCA  
GTGGTTGCAGTCCAGCGTGGCCTACACGGATATGGGAGCCACTGAGGGATGTTCCCCCTTGCTTGTGCCTTAAA  
GGCAGAGAAGCGAGGCCGATGCCCTGGAAGCACCCAGCATCACACCCAGGCTTGTGCAGGCCAG

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FIGURE 1b

PFHM

703250" 225316360

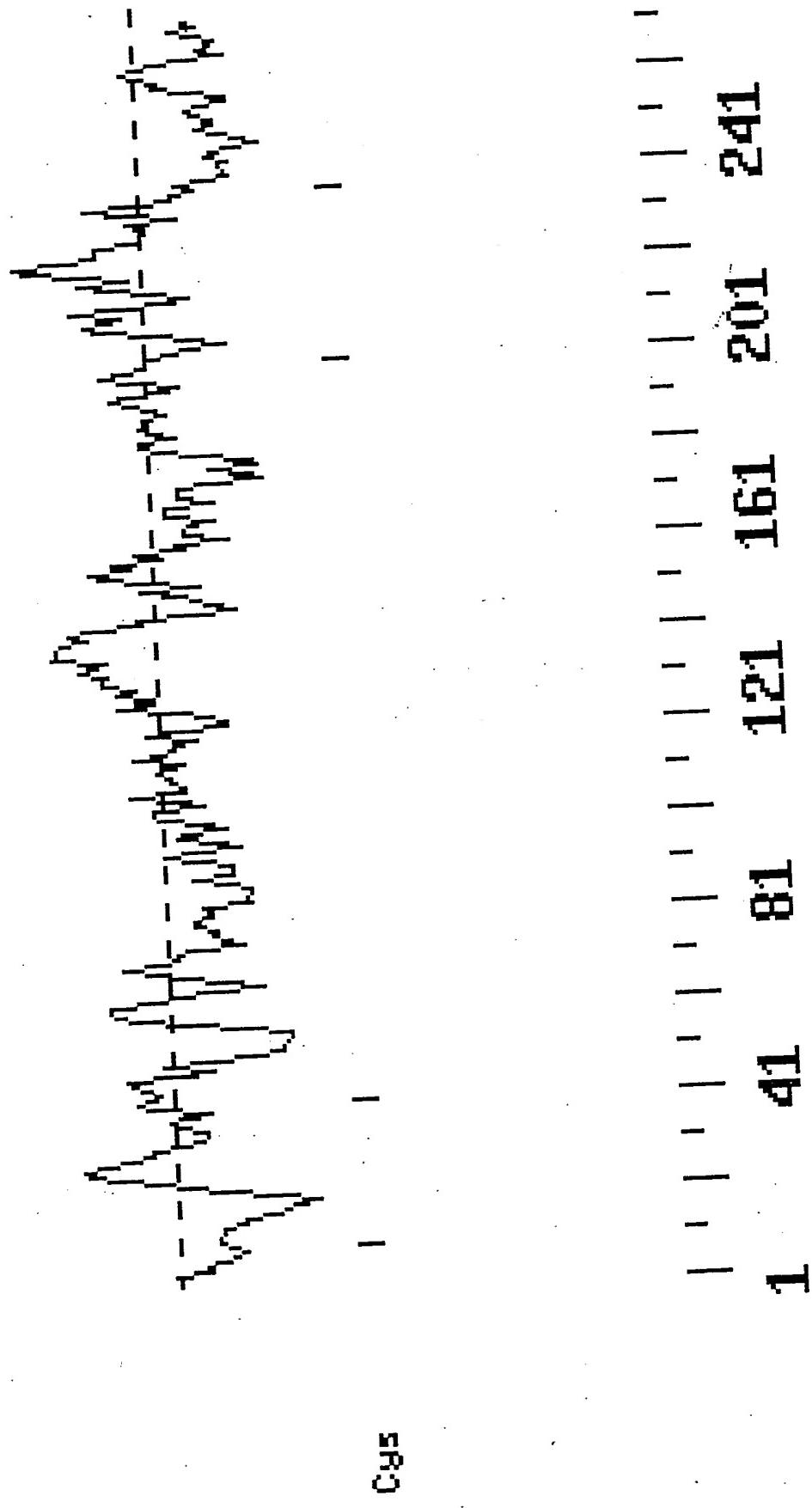


FIGURE 2

\*->vIGvaGsSGaGKTtvarrivsifgregvpaagiEGnpDsNtgdsflr    SEQ ID NO:4  
+IGv G+ ++GK+tv ++i +++g+ v                        +++l+  
25 LIGVSGGTASGKSTVCEKIMELLGQNEVE-----QRQRKVILS 63

1drfyndlhedrkragnkhyssffsPeAndFDLLyevfkeLkeGksvdkP  
drfy++l++e+++ a + +y+f+ P A+d DL+ +++k+ eGk+v++P  
64 QDRFYKVLTAEQKAKALKGQYNFDPDAFDNDLMHRTLKNIVEGKTVEVP 113

iYnHvtgerdpdgqePGtFTdwpeliegadvLviEGLHalyDerevNvaq  
+Y++vt++r p                        ++ ++++adv+ +EG++ +y                +++  
114 TYDFVTHSRLP-----ETTVVYPADVVLFEGILVFYSQE---IRD 150

L1D1kiyvDpdidlelarKiqRDmaeRGhs1EgvldsiekrrKPdyvnYI  
1 ++vD+d+d++l+r+ RD+ RG++lE +l ++ +++KP+++ +  
151 MFHLRLFVDTDSDVRLSRRVLRDV-RRGRDLEQILTQYTTFKPAFEEFC 199

aPQfsyaDliiqrpvptvdtsndFiakiipvrde<-\*  
P++yaD+i+r+ ++ ++++ ++++++ d+l  
200 LPTKKYADVIIPRGVDNMVAIN--LIVQHIQDIL . 231

FIGURE 3

Query: 154 LRLFVDTXXXXXXXXXXXXXXXXX-EQILTQYTFVKPAFEEFCLPTKKYADVIIIPR 212  
L++FVDT E ++ QY FVKP +E+F PTKKYAD+IIPR  
Sbjct: 1 LKIFVDTDADVRLIRRIKRDVNTERGRDIESVIEQYMFKPMYEQFIEPTKKYADIIIPR 60 SEQ ID NO:5

Query: 213 GVDNMVAINLIVQHIQDILNGDICKWHRGGSNRSYKRTFSEPGDHGMLTSGKRSHLES 272  
G DN VAI+LIVQHIQ ILN + H RSYKRTFSEPGDHGPG SGKR HLES  
Sbjct: 61 GGDNHVAIDLIVQHIQSILNEGQLSSQHTNVMNR SYKRTFSEPGDHPGYTPSGKRQHLES 120

Query: 273 SSRPH 277  
SSRPH  
Sbjct: 121 SSRPH 125

FIGURE 4

Query: 25 LIGVSGGTASGKSTVCEKIMELLGQNEVEQRQRKVVIQLSQDRFYKVLTAEQKAKALKGQY 84  
+IG++GG+ SGK+T+ KI+E+L + Q KVVI+SQD +YK L+ + + Y  
Sbjct: 4 IIIGIAGGS GSGKTTIARKIVEMLNK---PGQEKVVIISQDNYYKDLSELDMEERKENNY 59 SEQ ID NO:6

Query: 85 NFDHPDAFDNDLMHRTLKNIVEGKTVEVPTYDFVTHSRLPETTV-VYPADVVLFEGILVF 143  
NFDHPDAFD DL++ LK++ GK+VEVP YDF TH R + TV + PADV++ EGI  
Sbjct: 60 NFDHPDAFD DLLYEHLKBLKNGKSVEVPIYDFKTHRRKDETWTIEPADVILEGIYAL 119

Query: 144 YSQEIRD M 151  
Y + IRD+  
Sbjct: 120 YDERIRDL 127

FIGURE 5